

Fig. 1

Table 1 ANSI-Compliant Interface Specification (Compressor Input)

| FIELD NAME | MAX SIZE (BYTES) & TYPE | OPTIONAL |
|--|-------------------------|----------|
| Message Header 1)>Rs | 4 | |
| Format 01 Header 01 Gs96 | 5 | |
| Ship to Postal Code | Mode 2, 9N Mode 3, 6AN | |
| Field Separator Gs | 1 | |
| Ship to ISO Country Code | 3N | |
| Field Separator Gs | 1 | |
| Class of Service | 3N | |
| Field Separator Gs | 1 | |
| Tracking Number | 10AN | |
| Field Separator Gs | 1 | |
| Origin Carrier SCAC UPSN | 4 | |
| Field Separator Gs | 1 | X |
| Shipper ID | 6AN | |
| Field Separator Gs | 1 | |
| Julian Date of Pickup | N3 | |
| Field Separator Gs | 1 | |
| Shipment ID | ANO. 30 | |
| Field Separator Gs | 1 | |
| Shipment N of X | NO. 3/NO. 3 | |
| Field Separator Gs | 1 | |
| Weight | NO. 10 | |
| Field Separator Gs | 1 | |
| Address Validation (Y/N) | 1 | |
| Field Separator Gs | 1 | |
| Ship To Address | ANO. 35 | |
| Field Separator Gs | 1 | |
| Ship To City | A0. 35 | |
| Field Separator Gs | 1 | |
| Ship To State | A2 | |
| Format Trailer Rs | 1 | |
| Format 05 Header | 2 | |
| Field Separator Gs | 1 | |
| Ship To Address Line 2 Application Identifier (201) | AN3 + ANO. 35 | |
| Field Separator Gs | 1 | |
| Ship To Address Line 3 Application Identifier (211) | AN3 + ANO. 35 | |
| Field Separator Gs | 1 | |
| Ship To Address Line 4 Application Identifier (22L) | AN3 + ANO. 35 | |
| Field Separator Gs | 1 | |
| Ship To Address Line 5 Application Identifier (23L) | AN3 + ANO. 35 | |
| Format Trailer (Rs) | 1 | |
| Message Trailor Lot | 1 | |

FIG. 2

Package Info: Music Corp
Attn: Sam Smith
Room 202, Music Dept
813 Main St
Shaumburg, IL 12345
Country Code: 001
Class of Service: 001
Tracking Number: 1Z12345675
Shipper ID: 123456
Julian Date of Year: 123
Weight: 1lb
City/State/Postal Code have been validated

Fig. 3A

]>Rs
01Gs96123450000Gs001Gs001Gs1Z12345675GsUPSNGs123456
Gs123GsGs1/1Gs1GsY
Gs813 MAIN STGsSHAUMBURGGsILRs
05Gs20LROOM 202Gs21LMUSIC DEPTGs22LMUSIC
CORPGs23LSAM SMITHRs
Eot

Fig. 3B

{ "CORS", 000000000000000011101101000010011b, 18, 0, 25 },
 { "CPE", 000000000000000000001000100100000b, 13, 0, 20 },
 { "CRES", 000000000000000000001001111101000b, 13, 0, 25 },
 { "CRK", 0000000000000000000010110001000001011b, 18, 0, 20 },
 { "CRSE", 0000000000000000000010001001110000010b, 23, 0, 25 },
 { "CRST", 000000000000000000001000100111011011b, 22, 0, 27 },
 { "CSWY", 0000000000000000000010001001110111b, 20, 0, 26 },
 { "CT", 000000000000000000000000111011011b, 10, 0, 14 },
 { "CTR", 000000000000000000000000000010001110b, 10, 0, 21 },
 { "CTRS", 0000000000000000000001101101001101010b, 18, 0, 27 },
 { "CTS", 00000000000000000000000000001011010100b, 12, 0, 20 },
 { "CURV", 000000000000000000001000100100101101b, 19, 0, 28 },
 { "CVS", 00000000000000000000100010010001111000b, 18, 0, 20 },
 { "CYN", 00000000000000000000000000001101101001100b, 15, 0, 19 },
 { "D", 00000000000000000000000000000000101000b, 6, 0, 0 },
 { "DEPT", 0000000000000000000000000000101100001000b, 12, 0, 28 },
 { "DR", 0000000000000000000000000000000010011100b, 8, 0, 13 },
 { "DRS", 00000000000000000000000000001011000100000100b, 16, 0, 19 },
 { "DV", 00000000000000000000000000001011000100001b, 13, 0, 14 },
 { "E", 000000000000000000000000000000000101010b, 6, 0, 0 },
 { "EA", 00000000000000000000000000000000111011011b, 9, 0, 12 },
 { "EAST", 000000000000000000000000000001010010000b, 10, 0, 26 },
 { "ED", 00000000000000000000000000000000101100000b, 9, 0, 12 },
 { "EE", 000000000000000000000000000000000111000110b, 9, 0, 12 },
 { "EN", 000000000000000000000000000000000011101b, 7, 0, 12 },
 { "ER", 0000000000000000000000000000000001110100b, 7, 0, 13 },
 { "ES", 00000000000000000000000000000000010111000b, 8, 0, 12 },
 { "EST", 000000000000000000000000000000000101101b, 10, 0, 20 },
 { "ESTS", 0000000000000000000000000000000001000101100b, 16, 0, 26 },
 { "EXPY", 0000000000000000000000000000000001000100100010111b, 18, 0, 29 },
 { "EXT", 0000000000000000000000000000000001110110100011b, 14, 0, 22 },
 { "EXTS", 00000000000000000000000000000000010001001110000001b, 24, 0, 28 },
 { "EY", 000000000000000000000000000000000000000101b, 9, 0, 13 },
 { "F", 0011010b, 7, 0, 0 },
 { "FALL", 00000000000000000000000000000000011011110110b, 14, 0, 23 },
 { "FL", 001001101b, 10, 0, 12 },
 { "FLS", 00000000000000000000000000000000010001001000111110b, 17, 0, 18 },
 { "FLTS", 0000000000000000000000000000000001101101001101001010000b, 24, 0, 26 },
 { "FRNT", 000000000000000000000000000000000111011010000100100001b, 22, 0, 28 },
 { "FRST", 00000000000000000000000000000000011011010011010010101b, 22, 0, 28 },
 { "FRY", 000000000000000000000000000000000101101011101b, 16, 0, 21 },
 { "FT", 00110111100b, 11, 0, 15 },
 { "FWY", 0000000000000000000000000000000001110110100001010b, 17, 0, 21 },
 { "G", 00111010b, 7, 0, 0 },
 { "GDNS", 00000000000000000000000000000000011101101000010010010b, 21, 0, 25 },
 { "GRN", 000000000000000000000000000000000111011010000100101b, 19, 0, 20 },
 { "GRNS", 00000000000000000000000000000000011011010011010010100b, 25, 0, 26 },
 { "GRVS", 00000000000000000000000000000000010001001110000000010b, 26, 0, 28 },
 { "GTWY", 00000000000000000000000000000000011011010011010010000b, 22, 0, 29 },
 { "H", 00111101b, 7, 0, 0 },
 { "HBR", 0000000000000000000000000000000001000101111b, 16, 0, 21 },
 { "HIGH", 00000000000000000000000000000000010110110001b, 11, 0, 27 },

Fig. 4D

{ "HILL", 0000000000000000000010011011110b, 11, 0, 23 },
 { "HLS", 0000000000000000000010001001100b, 17, 0, 18 },
 { "HNGR", 00000000000001101101001101001001b, 21, 0, 27 },
 { "HOLW", 00000000000000000010001001110001b, 20, 0, 25 },
 { "HOME", 0000000000000000000111011001010b, 12, 0, 25 },
 { "HTS", 00000000000000000001011100100110b, 13, 0, 21 },
 { "HWY", 00000000000000000000000000001100001b, 10, 0, 21 },
 { "I", 00000000000000000000000000001111b, 6, 0, 0 },
 { "IA", 00000000000000000000000011110000b, 9, 0, 12 },
 { "IN", 00000000000000000000000000001110b, 7, 0, 12 },
 { "INC", 000000000000000000000000000010010b, 8, 0, 18 },
 { "IND", 00000000000000000000000001010010100b, 10, 0, 18 },
 { "ING", 00000000000000000000000000001010b, 8, 0, 19 },
 { "INLT", 00000000001101101001101001011011b, 24, 0, 25 },
 { "IO", 00000000000000000000000010000011101b, 11, 0, 12 },
 { "ION", 0000000000000000000000000101001001b, 9, 0, 18 },
 { "IR", 000000000000000000000000000010000001b, 9, 0, 13 },
 { "IS", 000000000000000000000000000010001b, 8, 0, 12 },
 { "ISLE", 00000000000000000000000110111101111b, 15, 0, 23 },
 { "ISS", 00000000000000000000000001101101000b, 12, 0, 18 },
 { "IT", 000000000000000000000000011011010b, 9, 0, 14 },
 { "IVE", 0000000000000000000000000100111101b, 9, 0, 20 },
 { "J", 0000000000000000000000000000101110b, 8, 0, 0 },
 { "JCT", 0000000000000000000110111101110000b, 18, 0, 22 },
 { "JCTS", 00000000000110110100110100101100b, 23, 0, 28 },
 { "K", 0000000000000000000000000000010010b, 7, 0, 0 },
 { "KY", 0000000000000000000000000000010011b, 12, 0, 14 },
 { "KYS", 00000000000001000100100010101100b, 19, 0, 20 },
 { "L", 0000000000000000000000000000010010b, 5, 0, 0 },
 { "LABE", 0000000000000000000000010110011001b, 11, 0, 24 },
 { "LAKE", 000000000000000000000000000011111101b, 11, 0, 24 },
 { "LAND", 00000000000000000000000000001111100b, 10, 0, 23 },
 { "LANE", 0000000000000000000000010011101111b, 11, 0, 23 },
 { "LBBY", 000000000000000000010001001110000010b, 24, 0, 26 },
 { "LKS", 00000000000000000000010001001000011100b, 17, 0, 18 },
 { "LNDG", 00000000001111011010000100100010b, 22, 0, 24 },
 { "LOOP", 000000000000000000010110001000000b, 14, 0, 25 },
 { "LOT", 000000000000000000000001101111010b, 13, 0, 19 },
 { "LOWR", 0000000000000000000101101010111000b, 17, 0, 25 },
 { "M", 0000000000000000000000000000111001b, 6, 0, 0 },
 { "MALL", 0000000000000000000000000110111011b, 11, 0, 22 },
 { "MDWS", 00000000000000000001000100111011010b, 22, 0, 25 },
 { "MEWS", 000000000000111101101000010010011b, 21, 0, 25 },
 { "MRS", 00000000000000000000000001001100000b, 13, 0, 19 },
 { "MS", 00000000000000000000000000001110b, 10, 0, 12 },
 { "MT", 0000000000000000000000011011110100b, 13, 0, 14 },
 { "MTN", 000000000000000000000001101111011101b, 16, 0, 20 },
 { "MTNS", 00000000011011010011010010110101b, 25, 0, 26 },
 { "MTWY", 0000000000010001001110000000011b, 26, 0, 28 },
 { "N", 00000000000000000000000000000101b, 6, 0, 0 },
 { "NCK", 00000000000000000000010001001000111101b, 17, 0, 19 },
 { "NE", 000000000000000000000000011111000b, 8, 0, 12 },

Fig. 4E

[illegible]

Fig. 4H

| FIELD NAME | MAX SIZE SYMBOLS & TYPE |
|--|--|
| Message Header 1>Rs | 6 (includes two symbols for Codeset A Escape characters) |
| Format 01 Header 01Gs 96 | 5 |
| Ship to Postal Code | Mode 2-9N Mode 3-6AN |
| Field Separator Gs | 1 |
| Ship to ISO Country Code | 3N |
| Field Separator Gs | 1 |
| Class of Service | 3N |
| Field Separator Gs | 1 |
| Tracking Number | 10AN Track # |
| Field Separator Gs | 1 |
| Origin Carrier SCAC UPSN | 4 |
| Field Separator Gs | 1 |
| Shipper ID | 6AN |
| Format Trailer Rs | 1 |
| Format Header Indicator (07) (free form text) ⁵ | 2 |
| UPS Free Form Text | AN45 |
| Format Trailer (Rs) | 1 |
| Message Trailer Eot | 2 (includes one symbol for Codeset A Escape character) |
| Total Symbols in Secondary Portion of MaxiCode | 84 |

FIG. 5

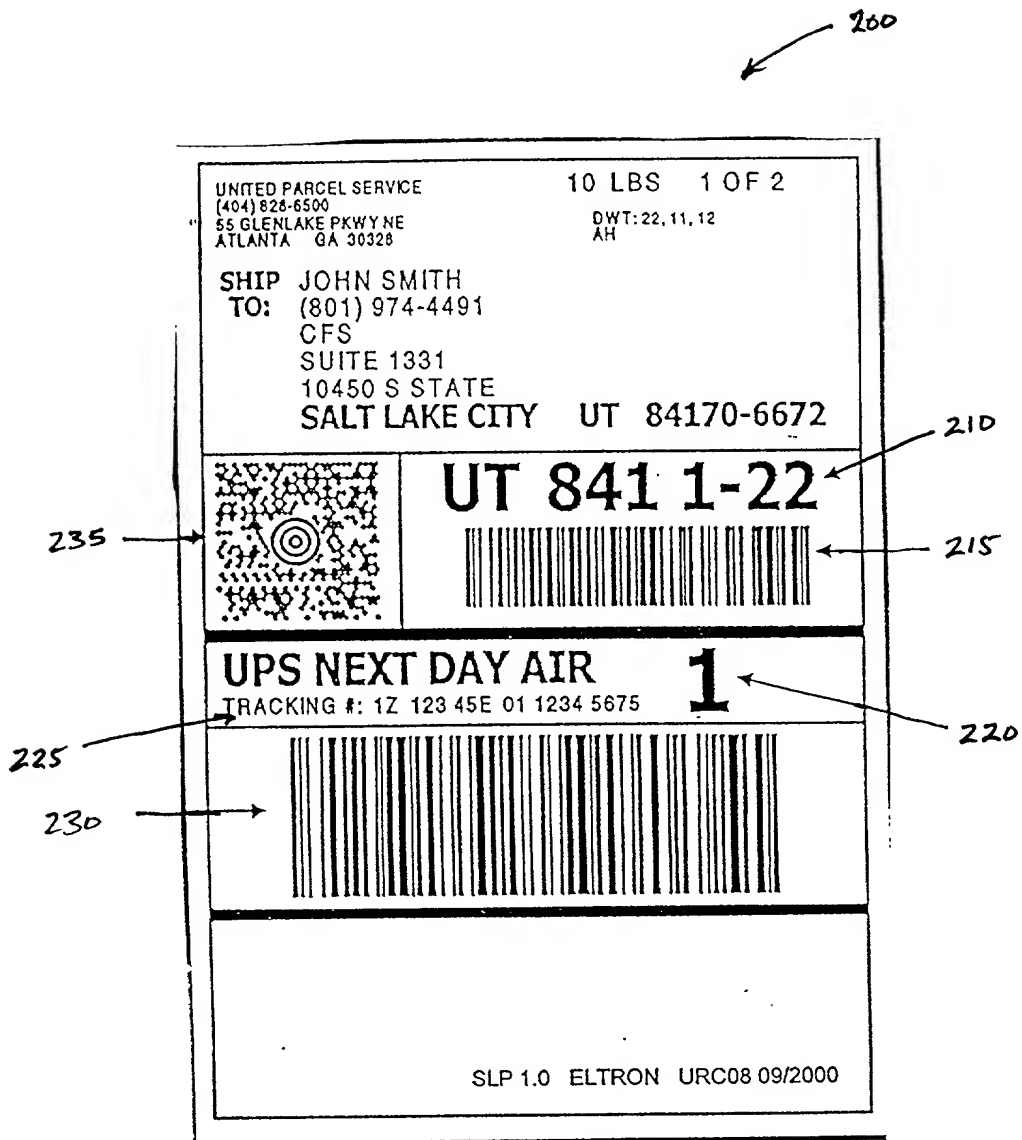


Fig. 6

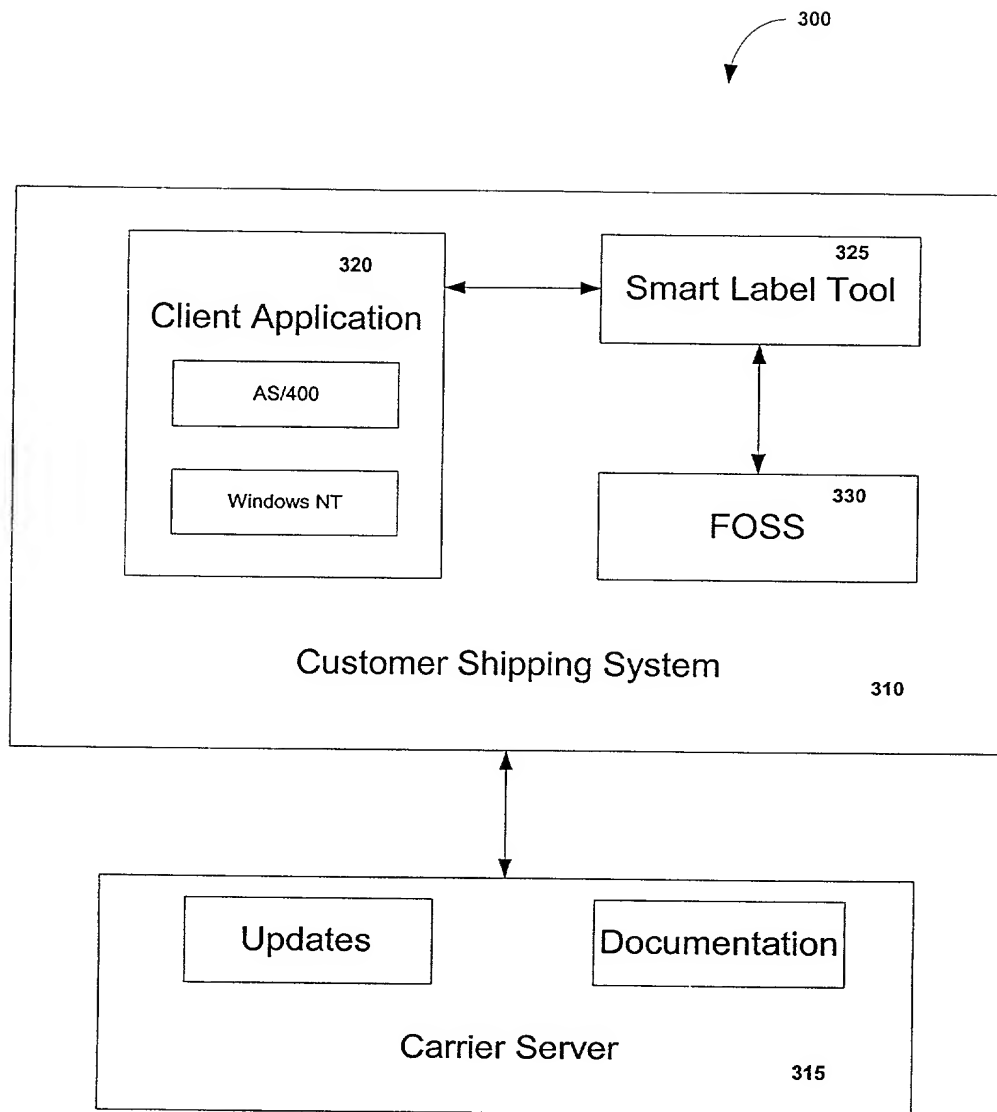


Fig. 7

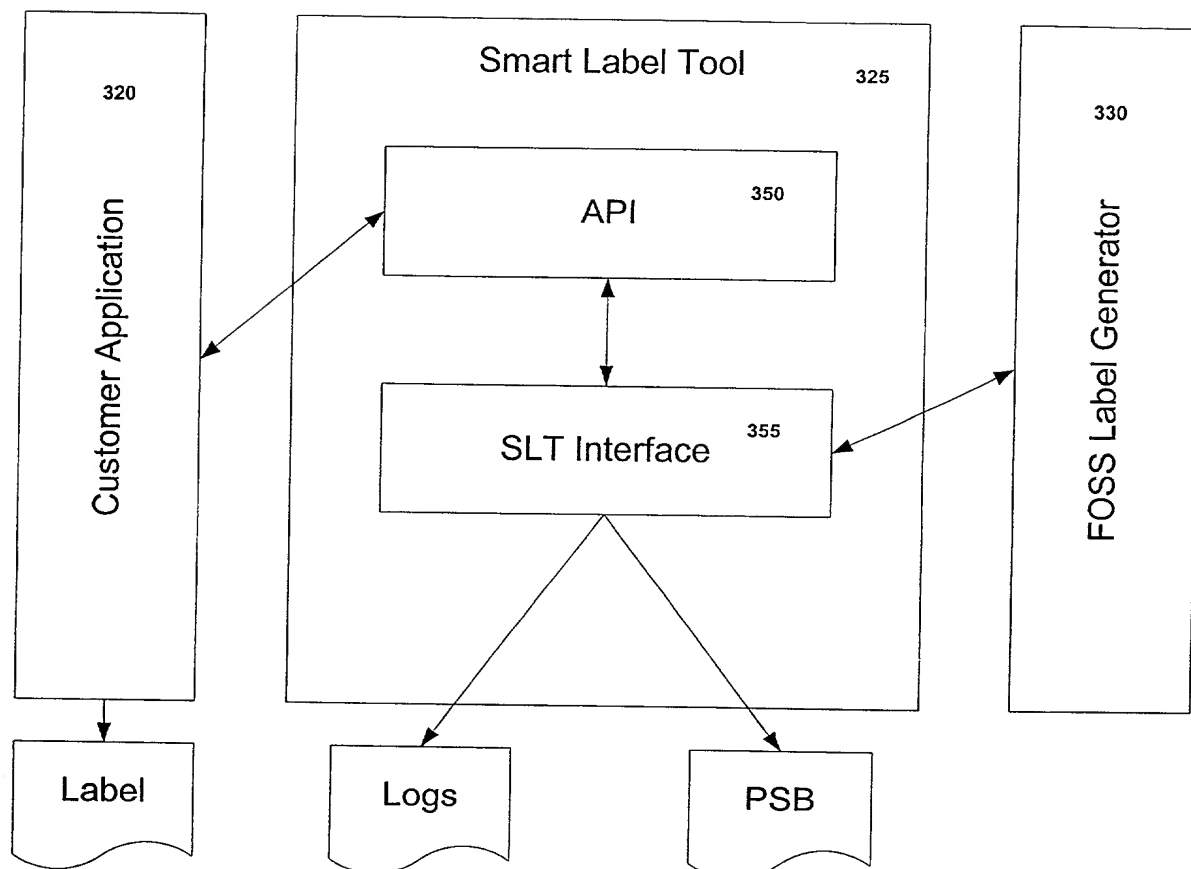


Fig. 8

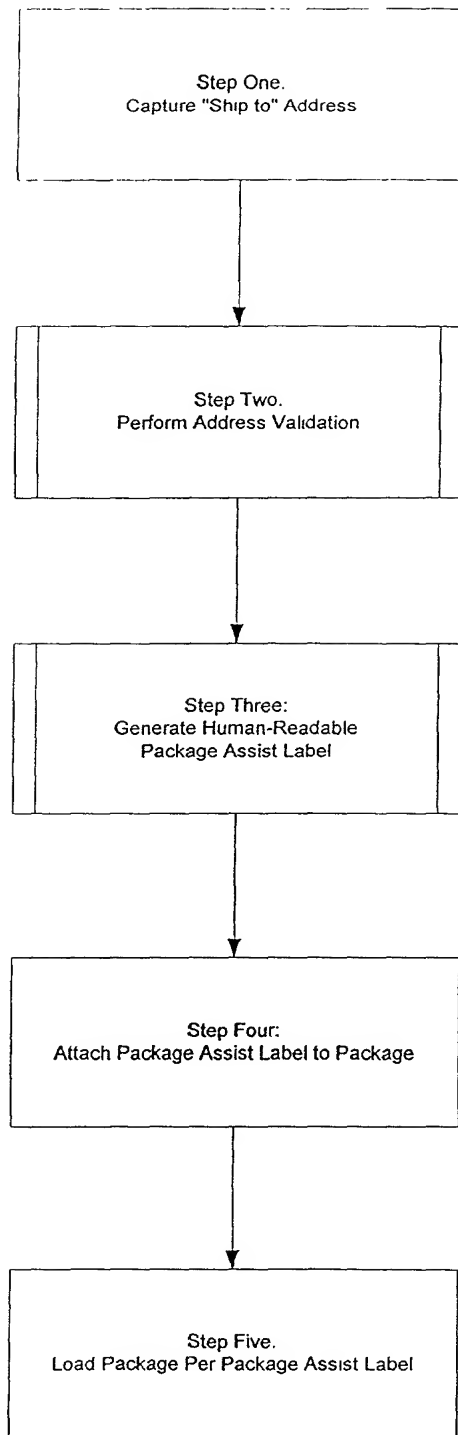


Fig. 9

Preload Assist Label (PAL)

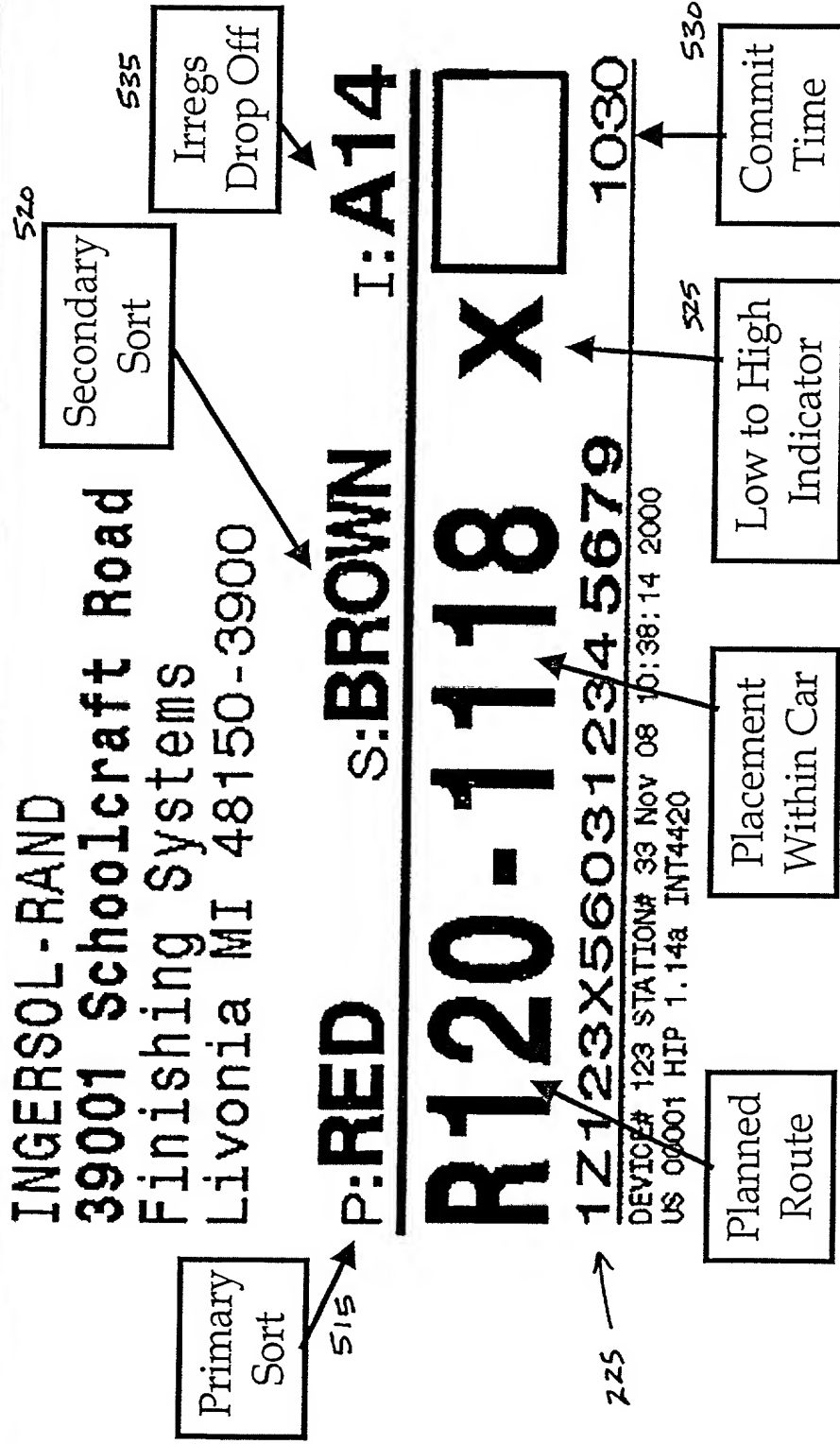


Fig. 10

Layer 1 - IDA Work Assignment

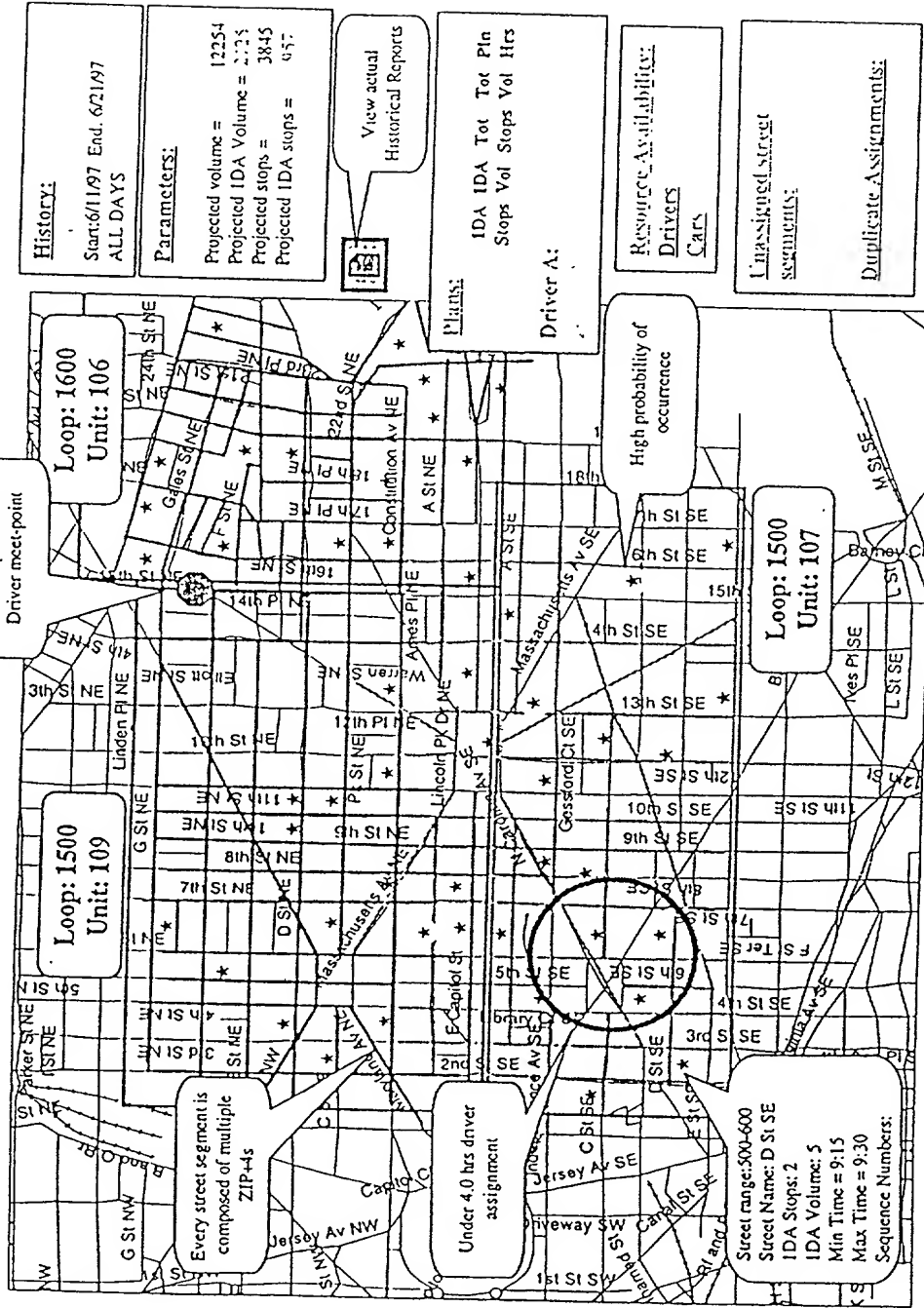


Fig. 11

Layer 2 - Pickup Work Assignment

Fig. 12

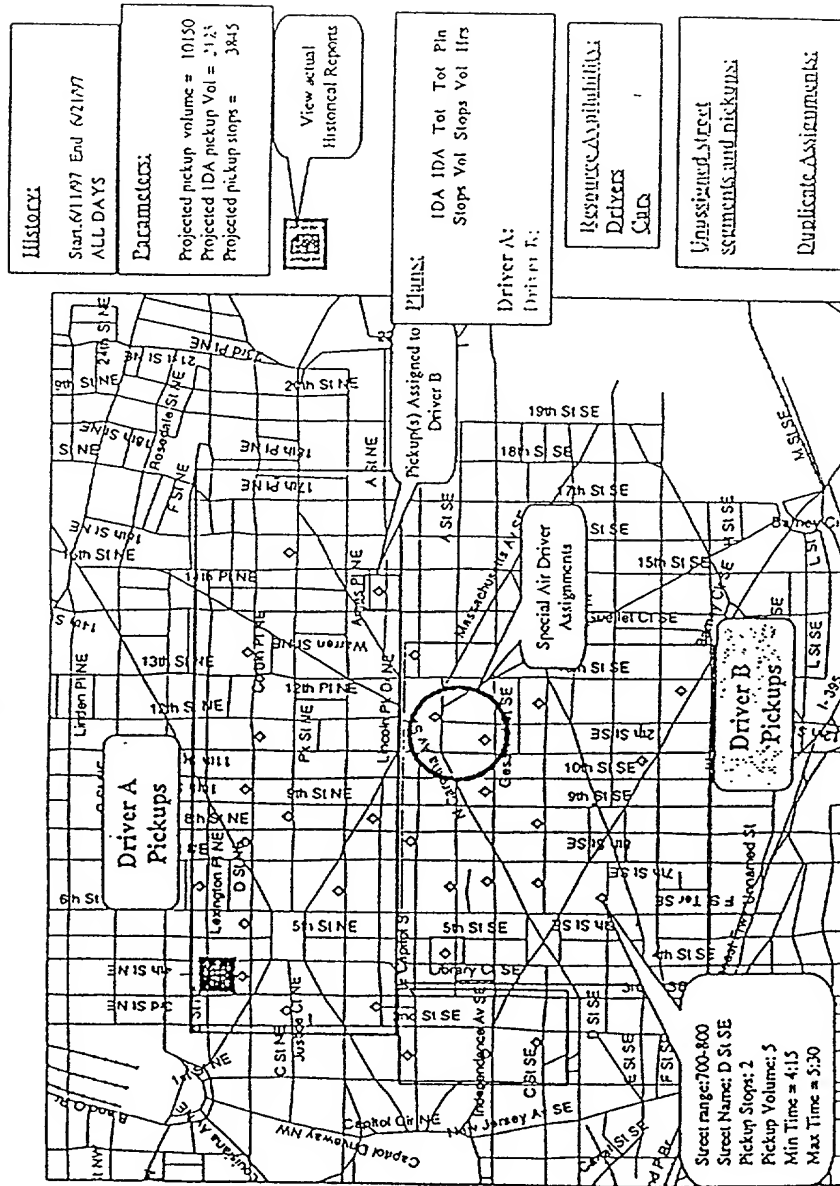
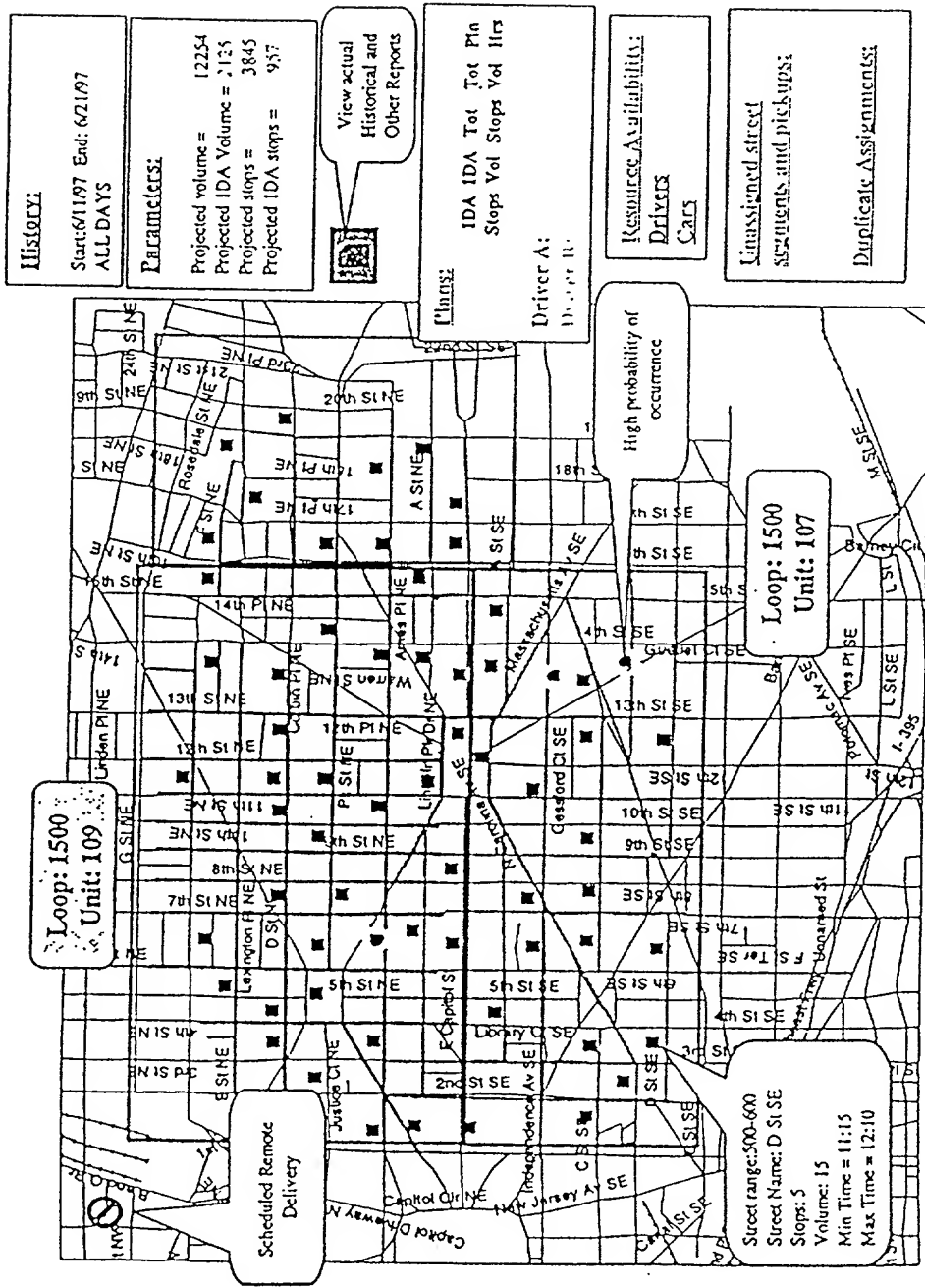


Fig. 13

Layer 3 - Other Delivery Work Assignment



Layer 4 - Actual Driver Trace and Performance

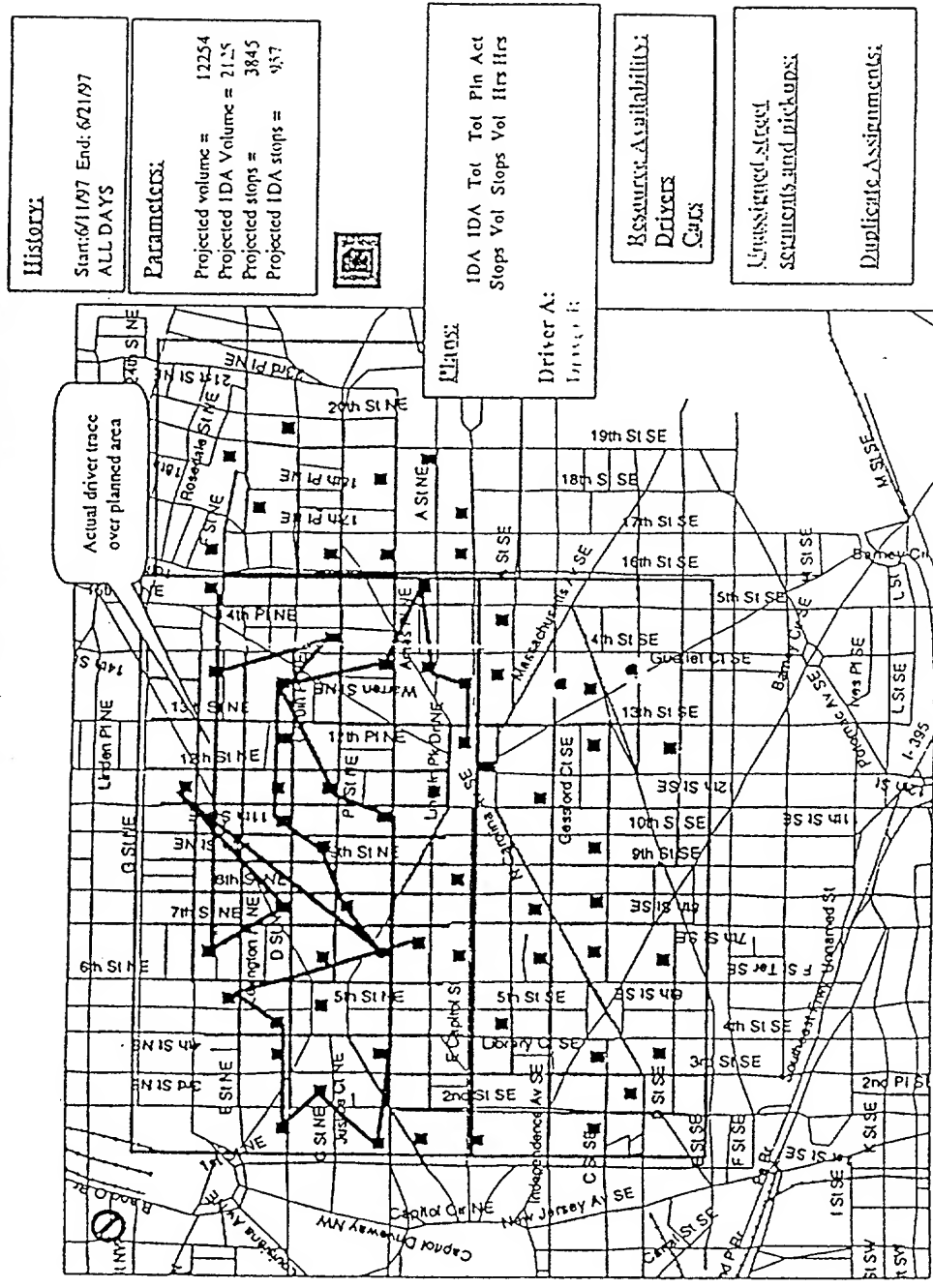


Fig. 14

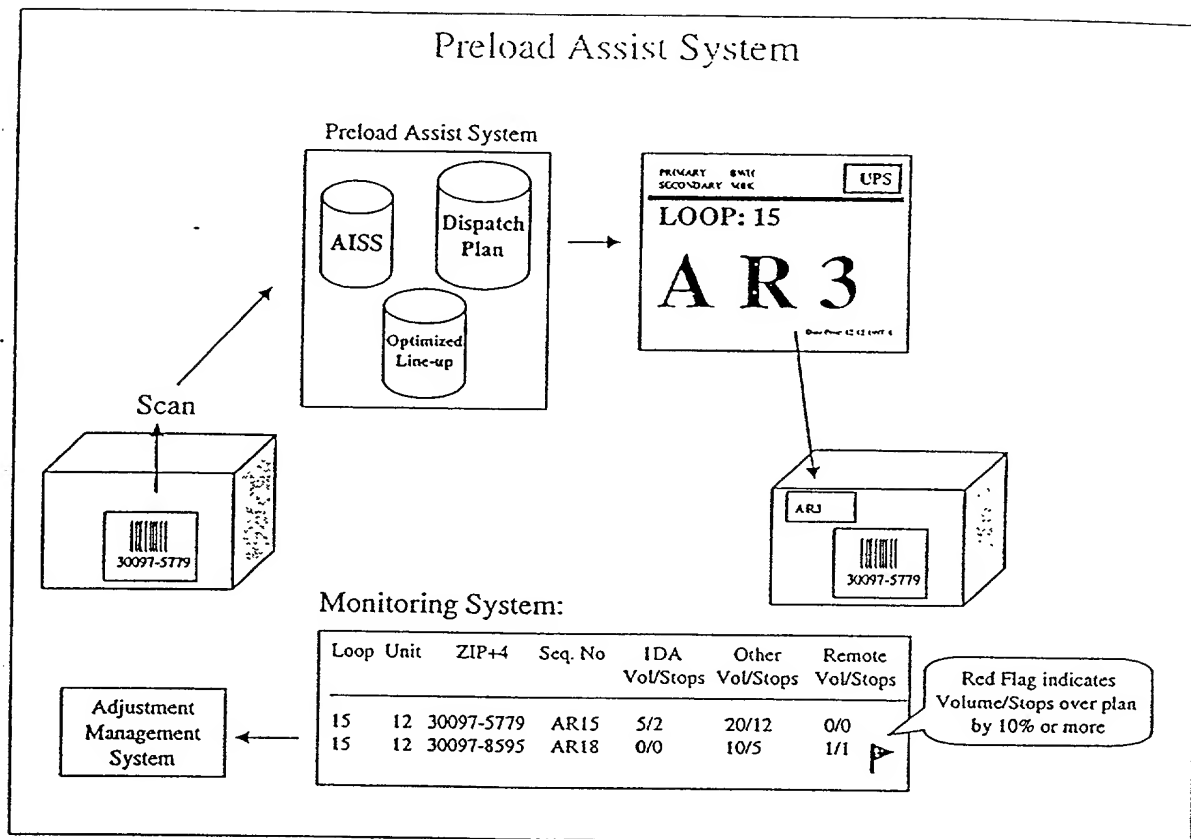


Fig. 15